-28 JAN 2005

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY:

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SPSNC19847	FOR FURTHER ACTION See Form	n PCT/IPEA/416			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/FI 2003/000667	13.08.2002				
International Patent Classification (IPC) or national classification and IPC					
H04L 27/26, H04L 1/00					
Applicant					
Nokia Corporation et al					
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of 3 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report					
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes					
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
o (sem a me merman)	• • • • • • • • • • • • • • • • • • • •	g and/or tables related thereto, in computer			
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
Box No. I Basis of	s of the report				
Box No. II Priority	rity				
Box No. III Non-esta	n-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of	f unity of invention				
	ned statement under Article 35(2) with regard to novelty, inventive step or industrial ability; citations and explanations supporting such statement				
Box No. VI Certain o	documents cited				
Box No. VII Certain o	lefects in the international application				
Box No. VIII Certain o	Certain observations on the international application				
Date of submission of the demand	Date of completion	n of this report			
26.01.2004	05.07.200	05.07.2004			
Name and mailing address of the IPEA/SE	Authorized office	Authorized officer			
Patent- och registreringsverket Box 5055	1	i			
S-102 42 STOCKHOLM		Fredrik Blomqvist/mj			
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interconal application No.

PCT/FI 2003/000667 Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description: \_\_\_\_ as originally filed/furnished pages received by this Authority on pages\* received by this Authority on \_\_\_ pages\* the claims: as originally filed/furnished pages as amended (together with any statement) under Article 19 pages\* received by this Authority on pages\* received by this Authority on pages\* the drawings: as originally filed/furnished pages received by this Authority on pages\* received by this Authority on a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interconal application No.
PCT/FI 2003/000667

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement	t			
Nove	lty (N)	Claims Claims	1-27	YES NO
Inven	tive step (IS)	Claims Claims	1-27	YES NO
Indust	trial applicability (IA)	Claims Claims	1-27	YES NO

## 2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: EP 1 124 344 A1

D2: Horvath, L et al" A novel, high speed, reconfigurable demapper-symbol deinterleaver architecture for DVB-T" In: Proceedings of the 1999 IEEE international symposium on circuits and systems, Vol.4, pages 382-385, 1999 Orlando, USA. D3: US6151296 A

The cited documents represent the general state of the art. The invention defined in claims 1-27 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method, system and apparatus for symbol interleaving. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-27 is novel and is considered to involve an inventive step. The invention is industrially applicable.